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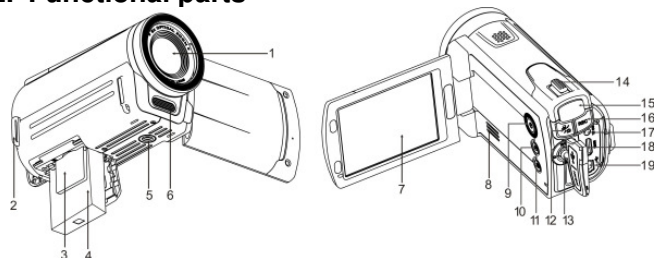
DVX 5050 FullHD

Manual

1. Key features of your camcorder

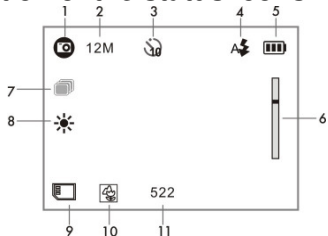
Full HD digital video camcorder – 1920x1080 up to 30fps
 HDTV HDMI high definition interface output
 3.0" fine grade LTPS color LCD display
 Slot for SD Memory card, support up to 32GB SD card capacity
 Driver free for Windows 7 / Vista / XP and MAC 10.4.9 or above

2. Functional parts



Item	Part	Function
1	Lens	Optical lens for Video & Picture taking.
2	Strap Hook	For fixing hand strap.
3	SD card slot	For inserting SD Card.
4	Battery	A 3.7V Li-ion rechargeable battery provided.
5	Tripod socket	For fixing the DV to tripod.
6	Flash	Flash strobe activates when indoor or dark environment pictures taken. The best flash distance is within 5 feet (1.5m).
7	LCD screen	LCD shows images, video clips, camera Settings and Menu.
8	Speaker	Speaker for video playback
9	Power Button	Pressing and hold the power button to turn on& off the unit. Or press the button once to set LCD display off, press again to display on.
10	Playback button	Press button to enter the Playback PICTURE mode, press again switching to Playback VIDEO mode.
11	Menu	Press to Set PICTURE / VIDEO recording options.
12	Mode Button	Press this button to select mode: PICTURE taking or VIDEO recording.
13	UP / AF setting	In MENU mode, push the key up for UP selection / In VIDEO or PHOTO mode, push the key UP to enter AF mode setting.
	DOWN / White balance	In MENU mode, push the key down for DOWN selection / In VIDEO or PHOTO mode, push the key DOWN to enter White Balance setting.
	LEFT / Flash	In MENU mode, push the key left for LEFT selection / In PHOTO mode, push the key LEFT for flash options selection.
	RIGHT/ EV±	In MENU mode, push the key right for RIGHT selection / In VIDEO or PHOTO mode, push the key RIGHT to enter exposure value setting.
14	OK button	To confirm changes (OK) in menu mode.
14	Zoom / Volume setup button	Zoom IN or OUT during recording mode./ Setting the volume in video playback mode.
15	LED indicator	Red light--The battery is recharging. Blue light-- the unit turned on.
16	REC button	Press this button to take still PICTURE; to Start or Stop recording VIDEO clip.
17	TV OUT socket	Use supplied TV cable for video and audio connection to standard TV.
18	HDMI socket	Use supplied HDMI cable for HDTV connection.
19	USB interface	1. For transferring images and video files to computer via USB cable. 2. For connecting the AC Charger / charging battery

3. Explanation of the status icons



Item	Function	Description
1	Recording mode	Photograph mode. Video mode.
2	Selected resolution	Photo-3MP, 5MP, 8MP, 12MP Video- Full HD, 1080P30, 720P30, WVGAP60, WVGAP30, VGA, QVGA
3	Self timer	On / Off
4	Flash indicator (PHOTO mode only)	Fill in flash: Flash will be always active regardless of scene brightness Auto Flash: The camera determines when the flash should be activated or not. No Flash : The flash is turned off.
5	Battery indicator	Battery is full Empty battery
6	Zoom indicator	Shows zoom range
7	Capture	Capture 1 / Capture 3
8	White balance	White balance selection.
9	SD card indication	The SD card is inserted and will be used as storage for PHOTO and VIDEO
10	AF setting mode	Full Normal Macro
11	Counter indicator	Shows available time for recording VIDEO Shows active recording VIDEO time Shows picture available in PHOTO mode

4. Details for camera setting

PHOTO setting		
In photo mode, press the MENU button and select PHOTO, then press OK to enter photo setup mode.		
Quality	Super Fine(Default) / Fine / Normal	PHOTO quality setting
Size	3M pixel resolution	2048 x 1536 pixels
	5M pixel resolution	2592 x 1944 pixels
	8M pixel resolution	3200 x 2400 pixels
	12M pixel resolution	4000 x 3000 pixels
Self-timer	On	Self-timer selected, 10 sec delay
	Off	Turn off the self-timer, disable
Capture	Capture 1 / Capture 3	Single or 3 continues photos selection
VIDEO setting		
In video mode, press the MENU button and select VIDEO, then press OK to enter video setup mode.		
Quality	Super Fine(Default)/ Fine / Normal	VIDEO quality setting
Resolution	Full HD	1920x1080 up to 30fps
	1080P30	1440x1080, up to 30fps
	720P30	1280x720, up to 30fps
	WVGAP60	848x480, up to 60fps
	WVGAP30	848x480, up to 30fps
	VGA	640x480, up to 30fps
QVGA	320x240, up to 30fps	
Setup		
In photo/video mode, press the MENU button and select SETUP by pushing the Direction Key right, then press OK to enter camera basic setup options.		
TV type	NTSC	American and Japanese TV format
	PAL	European TV format
Auto power off	Off	Auto Power-Off off
	1 min	Auto power off in 1 min if no operation
	3 min	Auto power off in 3 min if no operation
	5 min	Auto power off in 5 min if no operation
Time setup	Year / Month / Day / Hour / Minute	Setting the time on the image or video clips.
Volume	00 ~ 64	Setting the volume
Default Setting	Yes / No	Refresh the default settings
Format	Yes / No	Format the SD card
Language	English / Deutsch / French / Italian / Spanish / Portuguese / CHS / CHT / Russian	Select display language
Stamp	Off / Date/ Time / Date & Time	In photo/video playback mode, the Date, Time or the date and time Show on the image or video clips.
Beep Sound	Off / High / Low	Setting the beep sound volume.
FW Version		See the firmware version

Effect		
In photo/video mode, press the MENU button and select EFFECT by pushing the Direction Key right, then press OK to enter effect options.		
Flicker	50Hz (Default)	Set for European electricity frequency
	60Hz	Set for American electricity frequency
Contrast	Standard / Hard / Soft	Scene contrast setting options
Sharpness	Standard / Hard / Soft	Sharpness setting
ISO	Auto/100/200/400	Sensitivity select
	Auto	Automatic white balance
	Sunny	White balance selected for Sunny sky
	Cloudy	White balance selected for cloudy sky
	Fluorescent	White balance selected for fluorescent indoor light
White Balance	Incandescent	White balance selected for tungsten indoor lighting
EV Setting	0, +/-0.3, +/-0.7, +/-1.0, +/-1.3, +/-1.7, +/-2.0	Level of exposure
Metering	Center / Average / Spot	Metering setting
AF Setting	Full / Normal / Macro	AF setting mode

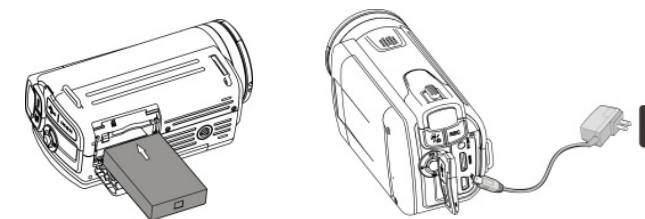
Note: The camera will remain in the last setting when it is turned OFF and ON again

5. Using the camera

5.1 Battery installation and charging (included)

The battery is not fully charged at shipment and must be fully charged before any operation.

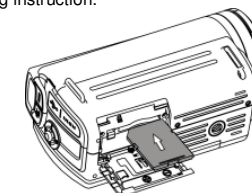
- Release and open the battery door.
- Install supplied 3.7V Li-ion battery into the battery compartment
- Align battery terminals with metal connectors inside compartment
- Close the battery door.
- Open connectors' cover and connect supplied AC charger to camera USB port.
- Turn the camera OFF and plug charger into wall power outlet.
- A red LED indicator will light up during charging, it will turn OFF when completed.



5.2 Inserting a memory card (not included)

You must insert SD Card (not supplied) to record and store your VIDEO and PICTURES.

- Follow the instruction for inserting a SD Memory card:
- Turn OFF the camera.
 - Insert the SD card into the SD card slot, gently press it down until card is latched. Make sure that the SD card is not in LOCK position (see tiny slider on card's side).
- Note:** Do not force the card into the slot, forcing may damage camera and the SD memory card.
 Align SD card position (as marked) and try again.
Note: The SD memory card must be formatted before taking photographs.
 See the following instruction.



5.3 Formatting the SD memory card

If your SD card is new, or it was used with other cameras or devices, you need to FORMAT the card, see simple steps below. If card was previously used, save all needed images & video first.

- In photo/video mode, press the MENU button and select SETUP, then press OK to enter camera basic setup options.
 - Select FORMAT by pushing the Direction Key DOWN and press OK.
 - Select YES by pushing the Direction Key DOWN.
 - Press OK to confirm formatting the SD card.
- Note:** During formatting of the SD card, all data, pictures & video (if present) will be erased; make sure you save your valuable records before formatting the memory.
Remember, all your records will be erased during formatting!

5.4 Setting the resolution

VIDEO recording mode

- Press the MENU button in video mode. Select VIDEO and press OK to enter options selection.
- Select RESOLUTION by pushing the Direction Key DOWN, then press OK to enter resolution selection.
- Select desired resolution by pushing the Direction Key UP or DOWN;
 Full HD (1920x1080), 1080P30(1440x1080), 720P30 (1280 x 720), WVGAP60 (848 x 480) WVGAP30 (848 x 480), VGA (640 x 480), QVGA(320 x 240)
 then press OK to confirm setting.

PICTURE taking mode

1. Press the MENU button in photo mode, Select PHOTO and press OK to enter option selection.
2. Select the SIZE by pushing the Direction Key DOWN, press OK to enter resolution selection.
3. Select desired resolution by pushing the Direction Key UP or DOWN;
3M (2048 x 1536), 5M (2592 x 1944), 8M (3200 x 2400), 12M (4000 x 3000)
then press OK to confirm setting.

5.5 Taking video or pictures

1. Open screen / turn on your camera.
2. Press the MODE button to select PICTURES (📷) or VIDEO recording mode (📹).
3. Use the LCD screen as a viewfinder composing the scene.
4. Press the REC button for taking a PICTURE, or press this button to start / stop VIDEO recording.

Note: 1. Keep camera and the object steady when making records to avoid blurry images.
2. Max video file size is 4GB. The unit will stop recording automatically.

5.6 Zoom IN and OUT

Your camera can zoom in up to 20 X (5 X optical zoom and 4 X digital zoom).
Push the zoom button LEFT/RIGHT for selecting desired scene / view.
Note the zoom bar in screen showing the zooming range.

Resolution	Digital zoom	
	Live view	Connected to TV (HDMI)
QVGA 30fps	Support	Support
VGA 30fps	Support	Support
WVGA 30fps	Support	Support
WVGA 60fps	Support	Support
720P 30fps	Support	Not Support
1080P 30fps	Support	Not Support
Full HD 30fps	Not Support	Not Support

5.7 Playback PICTURES and VIDEO clips

1. Press the PLAYBACK button (▶) once to enter PICTURES Playback mode, press it again to enter VIDEO Playback mode (PHOTO / VIDEO icon will be showed on top of screen).
2. Push the Direction Key UP / DOWN / LEFT / RIGHT to select desired PICTURE / VIDEO.
3. Press OK to confirm selected VIDEO or see full size PICTURE.
4. When viewing a photo, you may push (◀) (left) or (▶) (right) to zoom out or in the photo; Press OK again for starting the slide show.
5. When viewing video clips, Press OK to start playing the video and press again to pause.
6. When playing the video, push the Direction Key RIGHT / LEFT for fast forward or rewind the VIDEO.

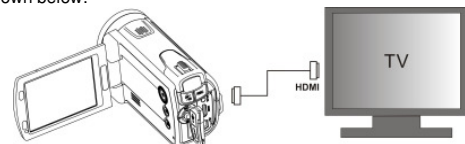
5.8 Delete photographs and video clips

1. Press the PLAYBACK (▶) button once to enter the PHOTO playback mode, or press again to enter VIDEO clip playback mode.
Select the photo or video to delete.
2. Press the MENU button to enter the delete mode.
3. Push the Direction Key LEFT or RIGHT for select delete current image or delete all images and press OK to confirm.
4. Press the MODE button to exit.

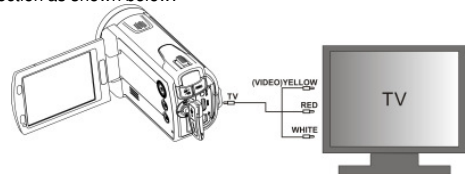
6. Connecting the HD DV camera

6.1 Connect to TV

When you wish to view on **High Definition (HD) TV**, please use supplied HDMI cable and connect as shown below:



Set your HDTV to corresponding HDMI INPUT (review TV Manual if needed) and use camera buttons in the same way as you use camera during PLAYBACK mode.
Enjoy watching pictures and HD VIDEO on large HDTV screen!
You may also view PICTURES and recorded VIDEO clips on typical **standard TV set**. Make connection as shown below:



6.2 Connect to Personal computer

You may also connect your HD camcorder to PC for viewing PICTURES and VIDEOS on the computer monitor as well as expanding your system to enjoy a wide range of functions. You may edit your videos or images and send them to friends over the Internet or even post your own VIDEOS on YouTube! Millions of people may view them!

Upload to YouTube

Please install MEDIAIMPRESSION. This software enables upload to YouTube. This will take you directly to YouTube website for easy upload of videos.

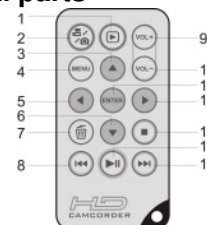
Installing DirectX and ArcSoft MediaImpression

1. Please insert provided CD into computer's CD ROM and follow screen prompts to install DirectX and MediaImpression in your computer
2. Use USB cable to connect HD camcorder to computer
3. Open My Computer-> Removable Disk and select image or video file
4. Click to open and watch High definition video played back.

You may also install QuickTime (not bundled on supplied CD) or other suitable programs for best video playback.

HD Video data is very complex; use Win XP, Vista, Mac9.x and newest computers – older and slower computers may not play your HD Video clips so well.

7. Remote functional parts



Item	Part	Function
1	Playback button	Press this key to enter Playback PICTURE mode, press again switching to Playback VIDEO mode.
2	Mode Button	Press this key to select mode: PICTURE taking or VIDEO recording.
3	UP / AF setting	In MENU mode, push the key up for UP selection / In VIDEO or PHOTO mode, push the key UP to enter AF mode setting.
4	MENU	Press to Set PICTURE / VIDEO recording options.
5	LEFT / Flash	In MENU mode, push the key left for LEFT selection / In PHOTO mode, push the key LEFT for flash options selection.
6	DOWN / White balance	In MENU mode, push the key down for DOWN selection / In VIDEO or PHOTO mode, push the key DOWN to enter White Balance setting.
7	Delete	Press it to delete the photo or video clip in playback mode.
8	Backward	During video playing, press the button for fast backward, press this key again to return normal playback.
9	VOL+ / ZOOM IN	Press this key to increase volume during video clip playback. In DC playback, PICTURE taking or video recording mode, press the key to zoom in the picture
10	VOL- / ZOOM OUT	Press this key to decrease volume during video clip playback. In DC playback, PICTURE taking or video recording mode, press the key to zoom out the picture
11	ENTER	Selecting and setup confirm
12	RIGHT/ EV±	In MENU mode, push the key right for RIGHT selection / In VIDEO or PHOTO mode, push the key RIGHT to enter exposure value setting.
13	Stop	Press the key to stop during playing
14	Play/Pause	During playing, press the key to pause, Press this key again to play continuously.
15	Forward	During video playing, press the button for fast forward, press this key again to return normal playback

8. Specification

Image Sensor	5.0 Mega pixel CMOS sensor	
Image resolution	VIDEO	Full HD (1920x1080) up to 30fps
		1080P30 (1440x1080), up to 30fps
		720P30 (1280x720), up to 30fps
		WVGAP60 (848x480), up to 60fps
		WVGAP30 (848x480), up to 30fps
		VGA (640x480), up to 30fps
		QVGA (320x240), up to 30fps
PICTURES	12 Mega pixel (4000x3000)	
	8.0 Mega pixel (3200x2400)	
	5.0 Mega pixel (2592x1944)	
	3.0 Mega pixel (2048x1536)	
Lens	F/2.8 f=8.5mm	
Focus range	Macro mode: 3cm~1M(Wide,3cm~20cm; Tele, 0.8M ~1M); Normal mode: 20cm~∞(Wide,20cm~∞;Tele, 1M ~∞); Full mode: 3cm~∞(Wide,3cm~∞;Tele, 0.8M ~∞);	
Zoom	Zoom in up to 20 times (5 X Optical Zoom and 4 X digital Zoom)	
LCD display	3.0" fine grade LTPS color LCD display	
White balance	Auto / Sunny / Cloudy / Fluorescent / Incandescent	
VIDEO format	MOV	
External memory card	Support up to 32GB SD memory card (card is required to store video & pictures, class 4 or above SD card is recommended)	
File format	VIDEO: MOV ; PICTURE: JPEG	
Self timer	10 second options	
PC interface	USB 2.0 port	

Power source	3.7V 1700mAh Li-ion rechargeable battery (supplied)
TV-out	High Definition VIDEO: HDMI Standard TV (NTSC or PAL) output: AV standard port

9. PC system min requirement

Operating System	Windows 7 / Vista / XP Mac 10.4.9 or above
CPU	Pentium III/ 1GHz (minimum) Pentium 4 / 3.0GHz or above processor (recommended)
RAM	At least 256MB (minimum) 1GB (recommended)
Interface	USB available port
Display Card	nVidia Geforce 7600 or ATI X 1600 or above

10. Troubleshooting

Problem	Cause	Solution
Cannot turn ON the camcorder	Low battery power. Battery not inserted properly.	Charge the battery Check that battery correctly aligned when installed
VIDEO or PICTURES cannot be saved when you are taking them.	1. SD card has not been installed 2. The SD card has not been formatted properly. 3. Memory is full. Display shows 'MEMORY FULL'.	1. Install SD card 2. Format the SD card at SETUP mode of the camera. Please refer to section 5.3. 3. Download the pictures and videos from the camera to the computer to create storage space.
Computer does not recognize your camcorder when connected. (You cannot find removable disk)	Connection failure.	Make sure all cable connections are secured. Restart the computer if necessary.
The battery life is very short.	Incorrect or old, used up, battery	Replace with new 3.7V Li-ion rechargeable battery
Blurry images	1. The HD camera is not held steady during recording 2. The lens of HD DV camera is dirty. 3. Incorrect Lens focus setting	1. Hold the HD DV camera steady when taking pictures, wait to hear the beep sound 2. Clean the lens with soft dry cloth. 3. Set the FullMacro / Normal lens focus according to the proper camera to subject distance. Use "Normal" setting as appropriate for typical situations.



For EU only
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